

*Observations of Occultations of Stars by the Moon, taken at
Stonyhurst. By the Rev. S. J. Perry, D.Sc., F.R.S.*

1886.	Phen.	Star.	G.M.T. h m s	Limb.	Observer.	Remarks.
Nov. 7	Disapp.	5 Ceti	6 0 40.1	Dark	W. C.	
1887.						
Feb. 6	Disapp.	3 Cancri	9 28 27.76	Dark	W. J. C.	Good
Mar. 8	,,	ρ Leonis	8 50 32.5	,,	J. R.	Excellent.
,, 29	,,	θ^1 Tauri	9 12 1.2	,,	W. C.	
,, 29	,,	θ^2 Tauri	9 19 8.8	,,	,,	
Apr. 2	,,	B.A.C. 2731	8 56 4.3	,,	,,	
,, 25	,,	48 Tauri	8 55 3.7	,,	W. J. C.	
,, 25	,,	,,	8 55 4.1	,,	W. C.	
Oct. 10	,,	ζ^1 Cancri	15 40 52.2	Bright	W. J. C.	
,, 10	,,	,,	15 40 52.2	,,	W. C.	Poor: Limb tremu- lous.
,, 10	Reapp.	,,	16 22 44.5	Dark	,,	Good.
,, 10	,,	ζ^2 Cancri	16 22 50.7	,,	,,	Fair.
Nov. 6	Disapp.	γ Geminorum	10 30 18.4	Bright	,,	
,, 6	Reapp.	,,	11 5 24.5	Dark	,,	
,, 20	Disapp.	B.A.C. 7209	5 35 16.7	,,	,,	
Dec. 27	,,	75 Tauri	6 28 22.3	,,	W. J. C.	
1888.						
Mar. 20	Disapp.	68 Orionis	10 15 47.1	,,	W. C.	Pretty good.
,, 20	,,	,,	10 15 47.9	,,	W. J. C.	
,, 20	Reapp.	,,	11 20 48.9	Bright	W. C.	Fair.
May 20	Disapp.	δ Virginis	12 55 30.5	Dark	,,	Very good.
,, 24	,,	η Libræ	10 50 49.6	Bright	,,	* very faint, diffi- cult.
Sept. 14	,,	50 Sagittarii	10 52 3.9	Dark	W. J. C.	Thin clouds passing.
Oct. 13	,,	20 Capricorni	7 4 35.7		W. J. C.	
,, 13	,,	,,	7 4 36.5		W. C.	

A dark screen was inserted in the eyepiece whenever the star was observed near the bright limb of the Moon. The observations of the Rev. W. J. Crofton were made with the $5\frac{1}{2}$ -inch refractor of Alvan Clark, and Mr. W. Carlisle always observed with the Simms 8-inch equatorial.

Note on the Occultation of χ^1 Orionis, 1888, October 24.
By Rev. A. Freeman, M.A.

This was very well seen here. Star disappeared at $9^h 2^m 8^s.02$ in a hollow of the Moon's bright limb, and reappeared almost instantly from behind the dark limb at $9^h 55^m 26^s.56$. Both times G.M.T. The chronometer had been

compared by means of a deck-watch with the noon signal at the R.A.S. rooms. Approximate position of the Observatory, $51^{\circ} 20' 3'' \cdot 1$ N. and $2^{\text{m}} 59^{\text{s}} 67$ E. Aperture of O.G. $3\frac{1}{2}$ in.

Murston Rectory, Sittingbourne:
1888, October 25.

Results of Micrometer Comparisons of Jupiter and β' Scorpii in
May 1888. By John Tebbutt.

This communication contains the results of filar-micrometer comparisons with the 8-inch equatorial of *Jupiter* and the well-known clock-star β' *Scorpii* about the time of their conjunction in May last. In determining the difference of right ascension both limbs were observed at each transit over the single meridian thread of the micrometer. The correction for phase is insensible. In the determination of differences of declination the comparisons on each evening were equally divided between the north and south limbs. The differentials are corrected for refraction, and the resulting places of the planet for parallax. The steadiness and definition of the images were throughout satisfactory. In the last column will be found a comparison of the several stars with the theoretical places of the *Nautical Almanac*, from p. 352 of which work the place of the comparison star has been taken.

Results of Micrometer Comparisons of Jupiter and β' Scorpii.

1888.	Windsor Mean Time.			Planet's Centre—Star.					Comps. h	Planet's Geocentric Apparent					Obs.—N.A.							
	$\Delta\alpha$			$\Delta\delta$						α					δ							
	h	m	s	m	s	'	"	m		s	'	"	s	"								
May 14	9	47	41	+3	28	99	--11	10	6	10	16	2	26	04	--19	41	4	1	+0	11	+0	9
„ 15	9	25	57	+2	58	23	--9	47	3	20	16	1	55	29	--19	39	40	9	+0	17	+1	4
„ 16	9	15	9	+2	26	98	--8	24	0	20	16	1	24	05	--19	38	17	7	+0	11	+0	8
„ 17	9	35	36	+1	54	89	--6	57	6	20	16	0	51	98	--19	36	51	2	+0	03	+1	1
„ 18	10	0	53	+1	22	64	--5	31	0	20	16	0	19	76	--19	35	24	6	+0	02	+1	0
„ 19	9	30	23	+0	51	59	--4	6	8	20	15	59	48	71	--19	34	0	5	+0	02	+1	2
„ 20	10	41	49	+0	18	18	--2	36	3	20	15	59	15	35	--19	32	29	9	+0	02	+1	5
„ 21	10	22	35	--0	13	25	--1	11	6	20	15	58	43	92	--19	31	5	2	--0	02	+1	2
„ 22	9	25	19	--0	43	86	+0	11	2	20	15	58	13	30	--19	29	42	5	--0	09	+1	0
„ 23	9	32	29	--1	15	86	+1	38	1	20	15	57	41	31	--19	28	15	6	--0	11	+1	0
„ 24	9	46	35	--1	48	01	+3	5	7	20	15	57	9	18	--19	26	48	0	--0	14	+1	2
„ 25	10	14	3	--2	20	39	+4	34	2	20	15	56	36	82	--19	25	19	5	--0	15	+1	6

Errata in my former Communications in the "Monthly Notices."

January 1888, p. 135, line 33 from top, *for ingress read egress*.

April 1888, p. 314, line 14 from top, *insert equation between the and*
Lenahan-White.

May 1888, p. 340, line 4 from top, *for evening read morning*.

Windsor, N.S. Wales: 1888, August 20.